



SOUTH CAROLINA STATE MUSEUM IMAGES

Summer 2014

Volume XXIX No. 3

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WELCOME TO YOUR NEW STATE MUSEUM!

BRIGHTER THAN EVER

NEW PLANETARIUM, OBSERVATORY AND 4D THEATER

OPENING AUGUST 16



VOLUME XXIX • NO. 3

SUMMER 2014

New Additions	6
New Exhibitions	15
Programs and Events	18
Museum News	20
Foundation News	22

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NOTES FROM OUR DIRECTOR, WILLIAM CALLOWAY

A LONG BUT REWA

When I arrived at the South Carolina State Museum in April 2002, I had no idea of the remarkable journey that would await me as I embarked upon the task of overseeing the funding, design and the building of the museum's planned renovation and expansion project. First named "O.P.T." (observatory, planetarium, theater) and subsequently renamed "Windows to New Worlds," this comprehensive project offered an opportunity for the museum to expand and reach diverse audiences in new, unique ways.

The museum opened in 1988, and to a large degree, appeared much the same to the general public. As the facility continued to compete in an ever challenging marketplace, the museum exhibits and experiences needed to be innovative and current in order for us to not only attract visitors to the facility but also to be relevant and necessary to the cultural and education community.

One factor was evident from the beginning – the world of museums is in the midst of redefining changes. The events of the past few years have dictated that museum leadership must anticipate earlier and react faster to these changes in order to remain viable, necessary and important to the families of today. The convergence of entertainment with education made possible in a large part by the changes in technology has put museums squarely in the middle of the competition for each family's discretionary time and income.

The market environment that surrounds the State Museum continues to be demanding and competitive. It is important that we provide exhibits, programs and events that are entertaining, interactive, engaging and unique while maintaining our educational point of difference. As we restore and enhance the vitality and quality into the experience of a visit, we must remain respectful of the past but committed to the future.

From understanding the dynamics of where the State Museum existed relative to the market place and where we needed to be in the changing world of museums, we developed the following goals we wanted the project to attain.

1. **To engage, educate and inspire** by enhancing the museum experience for all visitors.
2. **To be current, competitive and unique** by creating a facility and content that exists nowhere else in the nation.
3. To help **close the education access gap** by reaching every classroom via distance learning.
4. To have a **large economic impact on the state** by generating new revenue streams and increasing outer-market visitors.

From these goals, we then developed and selected the products that would best accomplish our objectives. We wanted a product that could be flexible and stay current for many years. Hence, we selected 4D and planetarium theaters, allowing us to rotate films that would be appropriate not only for science and technology but would also relate to our other core disciplines of art, cultural history and natural history. We also wanted product that could be diverse enough to appeal not only to families but to other demographics, including young professionals and college students, who over the years had not visited the State Museum in sufficient numbers.



RDING JOURNEY

IN OUR DESIGN, WE WANTED TO INSURE THAT WE FOCUSED ON THE FOLLOWING THREE KEY AREAS.

1. Improve our guest services and visual impressions
2. Integrate the State of South Carolina in an impactful way
3. Embrace the character of the historic mill building

In order to fulfill these product and design expectations, we retained experts and market leaders of the industry. Our thematic design team (Jack Rouse Associates), our architects (Clark Patterson Lee and Watson Tate Savory), our theater providers (Evans & Sutherland and SimEx-Iwerks), and our building contractor (Gilbane Construction) are all well respected in their fields and do projects not only nationally but around the world. We hired the best-of-the best!

During our first full year of operation, we expect to increase our attendance by 75,000 visitors, a 50 percent increase. We anticipate close to 100,000 school kids will visit the museum and many more schoolchildren will be impacted through our distance learning initiatives. We will generate \$19 million in economic impact for the state and establish the State Museum as a true cultural destination.

So here we are only weeks away from our grand opening. A journey that began for me 12 years ago but for the museum, started as a dream almost two decades ago. I'm very proud of what we have accomplished, as well as the relationships that have developed as a result of the many hours spent in countless meetings to make this dream come true.

I would like to acknowledge three very special individuals who supported me as I led this process. From the State Museum Foundation, former Board Chairman Roger Blau

and former Executive Director Adrienne Bellinger are true professionals who worked tirelessly to acquire the private funding required by the state. In a depressed economy, the Foundation, under the leadership of Roger and Adrienne, was able to raise the \$11.5 million in required matching funds. What an accomplishment! Finally, the Museum Commission Chairman, Gray Culbreath, has been at my side for this entire journey. Gray has kept me grounded and focused in difficult times and has encouraged me along the way.

Of course, I didn't do this alone. I have said many times, the staff and volunteers at the State Museum are unquestionably the most loyal, dedicated team with which I have been involved. They are passionate about their jobs and the museum and care deeply about the impact we have not only on school children but on all our visitors and families of South Carolina. This team, even though drastically reduced by budget cuts, not only contributed to the building of this project but during the same time period maintained the standard operation of the museum, which included introducing such blockbuster exhibits as *BodyWorlds Vital* and *TITANIC*.

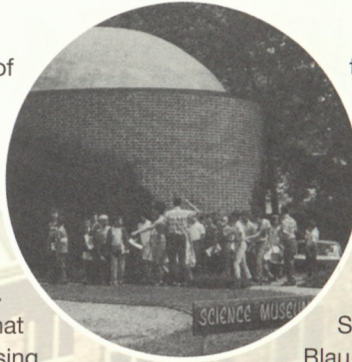
I truly hope that each of you will come to the museum and enjoy what many people have worked so hard to accomplish. I believe that when you do, you will be amazed and inspired by what you see and experience.

"IT HAS BEEN A LONG BUT VERY REWARDING JOURNEY."

AN IDEA TO A REALITY

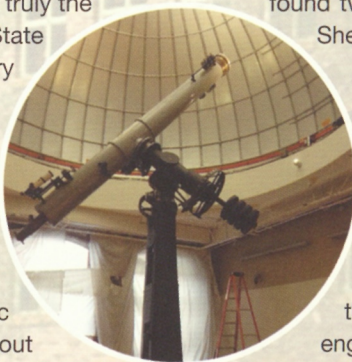
The South Carolina State Museum's expansion and renovation project, known as "Windows to New Worlds," has a long history that spans nearly two decades. The idea originated in 1995, when the Columbia Museum of Art and Science (now the Columbia Museum of Art) announced it was moving to Main Street and closing the small Gibbes Planetarium. The Columbia Museum director approached former State Museum Executive Director Tony Ganong and offered to donate the planetarium's equipment if the State Museum would open a planetarium. The State Museum accepted, and the equipment was donated in 1998.

"Once we had decided to pursue the goal of opening a new planetarium, the project began to expand," Ganong recently recalled. During this time, past State Museum Foundation Board Chair Bland Quantz and other board members understood that the State Museum needed to make changes and do something new to keep engaging and attracting guests. They saw the potential and opportunities that were presented in the wake of the Gibbes closing.



Quantz's cousin, Robert Ariail, also served on the foundation board at the time and was instrumental in the original idea of the project. Ariail just so happened to be an astronomy enthusiast with a world-class antique telescope collection. The light bulb went off, and Quantz made the connection of building a new planetarium and housing Ariail's immaculate telescope collection all under the roof of the State Museum. "Bland connected the dots and his vision was truly the genesis of the project," said Willie Calloway, State Museum executive director. "He was a visionary and entrepreneur who was always inventing and creating."

The next milestone occurred when Ariail learned that Columbia University's 1926 Alvin Clarke telescope needed a new home. "When we found out that Columbia University in New York had a magnificent historic telescope it wanted to move, we got serious about that option," said Ganong. The museum decided to acquire the telescope, which led to the next major element of the project, the observatory. In May 1997, the museum officially moved the telescope to Columbia where it was stored in a warehouse owned by Quantz until it would later be moved to the State Museum.



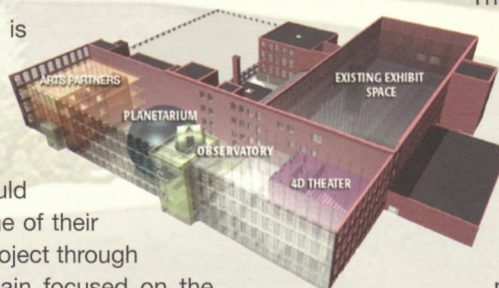
In 2002, the project momentum is resurged when Willie Calloway was hired as the new executive director. Calloway worked alongside State Museum Commission Chair Gray Culbreath to develop a plan that would transition the idea into a reality. Some of their main objectives were to look at the project through the eyes of the user, to always remain focused on the guests' experience and to ensure a positive external impact was made for many years into the future.

One of the biggest challenges was to raise the funds to build the project. When Culbreath and Calloway came on board

there was some seed money allocated, but there was a long road ahead of them to reach their \$23 million goal. It wasn't until 2008, when the "Windows to New Worlds" capital campaign kicked off that fundraising really started to take shape. The capital campaign committee was led by past Foundation Executive Director Adrienne Bellinger, past State Museum Foundation Board Chair Roger Blau and a dedicated capital campaign steering committee, chaired by Charlotte Berry.

According to Bellinger, "Although the committee members was having some luck, we couldn't seem to fully connect with our donors at first." The committee decided they needed to experience firsthand what they were raising money for in order to better convey their message to donors. The committee researched similar attractions and found two in Chicago, the Adler Planetarium and the Shedd Aquarium.

"This trip had two profound effects," said Bellinger. "The first was that we realized we had to physically travel to Chicago and visit two separate attractions in the city to experience everything that we would one day offer at the State Museum. Secondly, it changed how we emotionally felt about the project. Seeing inner-city kids having fun, engaged and learning at the same time was the most powerful thing that happened to our committee. If a handful of adults can be transformed through a couple of hours in Chicago, imagine how many thousands of kids would one day be transformed by their experiences at the State Museum."



The reenergized committee returned from this trip and started to see success. According to State Museum Commission Chair Gray Culbreath, "The project came to fruition as the result of collaboration among various stakeholders of the museum, including the Commission and Foundation, community volunteers and staff and most importantly, corporate and private donors, foundations and the General Assembly. Each group made vital contributions to the success of the project without which the eagerly anticipated opening would not be possible."

When looking back on the fundraising journey, Blau recalled, "It was amazing that we were able to have the support of the state, as well as having individuals and the private industry coming together to make this all happen. It says something very positive and forward thinking about the citizens of our state. I was very fortunate to be surrounded by dedicated and committed people, and our goal would never have been reached without their hard work. Now the citizens of South Carolina will have a premier educational and entertainment facility that is going to be recognized nationally as one of the greatest state museums."

The next stage in the process was to develop the thematic design. Calloway solicited the expertise of industry-leading firm, Jack Rouse Associates to create a cohesive story that celebrated the story of the museum's historic mill building, South Carolina and the museum's expansive collection. One of the museum's largest and greatest artifacts is its building, which is a nationally registered turn-of-the-century mill.

"It was a natural fit to make our storyline a celebration of our history and incorporate the mill and South Carolina into everything," said Calloway. "We wanted to embrace the mill and transform it into a cultural destination." After decades of being covered up, the museum is bringing it back to life, exposing the original walls, floors and most importantly, the character of the textile mill.

"Previously, when walking into the old lobby, you could have been standing in Anywhere, USA," said Calloway. "Now when you walk in the new lobby, you will definitely know you are in South Carolina. Every single design element, including the state map engraved in the floor, was considered and represents our state and its history in same way, shape or form."

From the thematic design came the architectural design, which was developed by Clark Patterson Lee and Watson Tate Savory. In total, there were three big architectural concepts – the original was to completely add on new square footage to the

facility, the second was to put everything inside the mill and the third and final design was a marriage of the two – renovating the building and adding additional new space for the planetarium. One big change to the original design was the elimination of an IMAX theater. "Instead of adding new space, we decided to use our current auditorium and convert it into a 4D theater which had been considered," said Calloway. "This was a way to take a part of the museum that was being underutilized and give it new life as an interactive, multipurpose theater."

After the design was approved, the museum hired industry-leading experts to build the project, including Gilbane Construction (general contractor), Evans & Sutherland (planetarium) and SimEx-Iwerks (4D theater). In October 2012, the museum officially broke ground. Since then, more than 200,000 construction man hours have been invested into building the project, and on average, there are 125 construction workers each week working on the project.

The new museum will have a profound impact on the state, its visitors and its students. The museum will give a large boost to the local and statewide economies. It will be a place where guests of all ages can have a new and unique experience – from watching a 4D movie with water splashing in their face, to sitting back and watching a planetarium show, to looking at images taken of space through a massive telescope and then finishing up their visit by walking through the museum's galleries to learn about art, history and more.

"I am most proud of the impact we will have on the students of South Carolina," said Calloway. "The environment for learning has changed so much. It used to be teachers with children at desks; now the environment for learning is all about technology, ipads and smart boards. The museum will now have a voice in this new way of learning."

Since the museum opened in 1988, more than 1.2 million South Carolina students have visited. "This project is about the next million kids and how we can impact and inspire them in meaningful ways," said Calloway.



**YOU'RE INVITED TO AN EXCLUSIVE
MEMBER PREVIEW DAY!
FRIDAY, AUG. 15**

See page 18 for details.



“THERE SHE IS!”

-Robert B. Ariail

NOTES FROM OUR EDUCATION DIRECTOR, TOM FALVEY



BOEING OBSERVATORY

In 1996, Ron Shelton, former science curator, and several past Foundation board members traveled to New York City to inspect a 12-3/8 inch Alvan Clark telescope that was housed at Columbia University. They all had the vision that this amazing instrument would one day be housed in an observatory atop the State Museum.

While on this trip, they took lots of pictures. My favorite image is of Ron and former State Museum Board Member Robert “Bob” Ariail, with Bob peering under the eyepiece with a boyish grin, revealing his passion for astronomy and telescopes.

The telescope officially moved from New York to South Carolina in May 1997. In the 17 years since the Clark was moved, it has been fully assembled several times, used for testing and has been incorporated in the exhibits. As impressive as the instrument was in those environments, the big Clark never looked quite right sitting beneath a ceiling with no opening to the sky.

The telescope spent several years stored in a warehouse owned by former State Museum Foundation Board Chairman, Bland Quantz. While there, experts installed new gears, motors and software for computer control. Following full tests beneath the warehouse roof, the telescope returned to the museum, though the lens remained safely stored in a cool, dark room.

In a time when many observatories with vintage refracting telescopes struggle to stay open, we are thrilled that light soon will strike the Clark lens. A generous grant from Boeing South Carolina will allow students in our state to control the telescope, “click the camera shutter” to take images, and connect through real-time distance learning with museum astronomy staff directly from their classrooms.

“Boeing is excited to be a part of the Windows to New Worlds project, and the access to STEM educational programming it will provide to thousands of students here in South Carolina. Windows to New Worlds will present, present STEM in a fun and engaging way, and help ensure that all children in South Carolina have the opportunity to aim high, reach for the stars, and reach their maximum potential.”

- Jack Jones, Vice President
and General Manager,
Boeing South Carolina

The adjacent classroom will serve as the control center for the instrument, as well as a space for student and teacher instruction. The room also will serve as an education area for museum guests who come for both day and evening programs. Regular late closings will allow frequent opportunities for all to experience amazing views of bright objects in our night sky, including time on our outdoor terrace, where smaller telescopes will be available.

In its new fourth floor home, resting atop its massive tripod that is rooted in bedrock and rises through the vertical space of the museum’s main entrance, the great Clark telescope now is ready for “first light” for the second time. I can already hear guests’ responses, which will echo comments from anyone who sees this instrument in its new space. “Wow!” And of course, I can hear Bob Ariail, who always uses the same words when he sees the Clark, “There she is!”



Officina Sculptoris



THE ROBERT B. ARIAIL COLLECTION OF HISTORICAL ASTRONOMY

The new 6,000-square-foot telescope gallery, adjacent to the observatory, features an amazing collection of antique astronomical instruments dating to 1730. The gallery includes 65 telescopes, 25 binoculars and more than 100 micrometers, spectrographic eyepieces and solar eyepieces. This incredibly rare collection has been praised by the Antique Telescope Society as the largest and greatest collection of early American telescopes in the world.

Robert Ariail, a local astronomy enthusiast and former State Museum foundation board member, donated 58 of the collection's 65 telescopes. He donated his collection, the Robert B. Ariail Collection of Historical Astronomy, to two institutions - the State Museum and Thomas Cooper Library at the University of South Carolina. The telescope lenses and other equipment are in the museum's collection and the 5,300 astronomical books are in the library's collection. Scans from pages of these books will be on display throughout the museum's telescope gallery.

In a letter written about the decision to donate his collection, Ariail stated, "No one lives forever, and as I continued to advance in age, I realized that I had decisions to make. Basically the decision became either to sell or donate the books and telescopes. This was easy for me as the collection was quite unique in a number of ways and my strong desire

was to keep the collection intact, hopefully for many to enjoy in the future."

The Ariail collection includes the oldest surviving American-made observatory instrument, which was delivered in 1849 to Erskine College in Due West, S.C. This telescope has a very unique story.

During the early 1970s, Ariail was browsing through old periodicals and read an article about an early Henry Fitz telescope that had been disassembled and left in very poor condition at Erskine College. The article sparked his curiosity, and he immediately made an appointment to meet with the head of the Physics Department at the college. Several months later the telescope was released into his custody and brought back to Columbia. Ariail spent the next several years rebuilding the telescope, and in 1985, Erskine donated it the State Museum's permanent collection.

"I get great pleasure out of knowing that the collection will be preserved and will be available for all to enjoy for years into the future," said Ariail.

The Fitz telescope can now be seen at the main entrance of the museum's telescope gallery inside a replica of the Erskine College observatory dome. The telescope is positioned to look out into a replica night sky of Orion setting in March.

"I get great pleasure out of knowing that the collection will be preserved and will be available for all to enjoy for years into the future."

-Robert B. Ariail



FIRE IN THE SKY

To the right of the Erskine College dome replica, guests will see "Fire in the Sky," by South Carolina artist Clay Rice. This large scale silhouette illustrates the Leonid meteor shower, one of the largest and most intense meteor showers in human history and one of the pivotal moments that began the serious study of meteors. This commissioned artwork was funded in part by the South Carolina Arts Commission, which receives funding from the National Endowment for the Arts.

BLUECROSS BLUESHIELD PLANETARIUM

The massive 55-foot dome planetarium and theater will take guests on journeys to the deepest reaches of space through educational and entertaining astronomy shows, non-space movies dealing with art, history or natural history and laser light shows set to music of the Beatles, Pink Floyd, U2 and more.

"Our planetarium's amazing projection system and the interactive NASA gallery will literally bring science and outer space to life," said Tom Falvey, director of education. "What was once incomprehensible to many will now be comprehensible."

According to Falvey, the planetarium will run on a Digistar 5 system, which is the most current, state-of-the-art software and presentation system. It features high-resolution detail and 3D terrain showing spectacular views of the earth, planets and moons in the solar system. It has the capability to show real-time stars and constellations from anywhere on earth and will be able to recreate the sky and star positions from more than one million years in the past to more than one million years in the future.

"The ability to recreate night skies will allow us to merge history into our science programming," said Falvey. "We can travel back and see what the stars and sky looked like on historical dates like in February 1865 when Sherman marched through Columbia. The capabilities of this system are incredible."

*"BlueCross
BlueShield of South Carolina
is pleased to play a role in fostering
innovation in our state. We believe that
creativity is another expression of a healthy
community."*

*- David Pankau, President and
Chief Executive Officer,
BlueCross BlueShield of South Carolina*

The planetarium will also offer real-time experiences such as live satellite-based programs and interactions from NASA. Images taken of space from the observatory's telescope can be displayed on the planetarium's projection screen.

The planetarium will be used daily for educational presentations for the general public and school groups. Interactive technology at all 145 seats will allow students and guests to engage actively with planetarium presentations.

"We're excited to finally bring back a planetarium to the Capital City," said Falvey. "Many students and adults will be inspired and amazed as they sit back in their seats and experience their first - and hopefully not last - planetarium show. We hope that experience will stick with them forever."



A permanent NASA gallery is located in an alcove in the planetarium lobby. The gallery will have interactive capabilities and features artifacts from South Carolina astronauts. Some of the objects include Charles Duke's training suit, helmet and wrist band with lunar activity instructions and a moon rock from one of his missions, as well as some of Ron McNair's objects that were recovered from the 1986 Challenger explosion. Interactive displays will show current NASA missions and experiments on the International Space Station.



REV. DR. SOLOMON JACKSON JR. 4D THEATER

Imagine feeling the splash of water in your face as a school of fish swims by, feeling the vibration on your seat from roaring dinosaurs and smelling hot chocolate while watching a holiday favorite. These are all sensory opportunities that guests will experience in the museum's new immersive 4D theater.

The only permanent theater of its kind in the state, the 4D theater offers educational and entertaining movies year-round that complement other museum exhibits and popular movies that excite all ages.

"It truly is a unique experience like no other," said Willie Calloway, executive director. "Guests can now see their favorite movie in an entirely new way - with special effects that make all their senses come alive."

Designed by industry leader SimEx-Iwerks, the 4D theater

couples high definition 3D digital projection movies with physical features to provide multisensory, immersive experiences for guests. Physical features, including water sprayers, ankle ticklers, air blasters, scents, snow, bubble and smoke effects, strobe lights and vibrating seats, are synchronized to the images displayed on the movie screen.

The museum's new theater provides important new opportunities for engaging young people's imaginations and intellect.

"Kids are more likely to learn and retain information when they are engaged and having fun," said Calloway. "We're now offering new ways to excite and educate our students and guests."

The theater also will be used for a variety of programming, such as concerts and popular movies.

"The technology, science and experiences we have today are guaranteed to benefit the students of tomorrow."

- Rev. Dr. Solomon Jackson Jr.



SHOWING SOON!

Starting Aug. 16, **Ice Age Dawn of the Dinosaurs: The 4D Experience** will play to complement the new blockbuster exhibit, **Dinosaurs: A Bite Out of Time** and the educational movie, **Planet Earth: Pole to Pole 4D Experience**, will take guests on a life-like journey around the globe. During the holiday season, **The Polar Express in 4D** is sure to put everyone in the spirit.



NEW PUBLIC LOBBY

The museum's new public lobby is bigger and better than before. A new glass entrance that extends outside of the building's front walls will welcome guests as they walk under three massive telescope legs to enter the new lobby. Although these telescope legs have a practical use (to fully stabilize the telescope), they also serve as an iconic industrial fixture of the museum's new lobby and brand.

The lobby includes a donor recognition wall and a temporary stage to host performances, demonstrations and much more. Several iconic artifacts located throughout the lobby representing the museum's four disciplines.

Three of the museum's partners, the Columbia Metropolitan Convention and Visitors Bureau (CVB), South Carolina Educational Television (SCETV) and the South Carolina Parks, Recreation and Tourism Department (SCPRT) have their own unique permanent exhibits in the new public lobby. These spaces allow guests the opportunity to explore and learn about the great things happening in Columbia and across South Carolina.



The exhibit highlights events, attractions and local businesses in Columbia. The exhibit features interactive kiosks with access to the CVB's website to get real-time information about what's going on around town, where to dine, where to shop and more. There is a display rack with CVB visitor's guides for guest to take with them. The exhibit is located in the left wing of the lobby next to the front entrance of the museum.



The exhibit showcases how SCETV uses television, radio and the web to delivery educational programming to children and residents across South Carolina. The exhibit is located at the back of the new lobby adjacent the new stair case and below the 4D theater.



The exhibit "Come Out & Play" celebrates South Carolina mountains, rivers, beaches and parks, including panels and interactive displays on Caesar's Head, Landsford Canal and Hunting Island, as well as parks across the state. The SCPRT exhibit is located on the left wing of the lobby between the CVB exhibit and the Cotton Mill Exchange museum store.

ICONIC ARTIFACTS ON DISPLAY IN LOBBY

Several iconic artifacts are on display throughout the main lobby representing the museum's four disciplines of art, cultural history, natural history and science & technology. The museum's curators hand selected these artifacts to provide guests a better understanding of the museum's diverse collection. Each artifact represents a location and period in South Carolina's history - from prehistoric times to present day. Everyone is invited to enjoy and learn more about these artifacts, as the lobby is free and open to the public.

High Speed Warper, Anderson County, S.C.



The warper was a common sight in textile mills, as it was vital to providing cross-weave strands of thread to give the cloth strength. This warper was restored by volunteers at the State Museum.

Tub Wheel, Lemuel and Irvin Hall, Lexington County, S.C.

In the 19th century, water wheels like this one, and the more familiar vertical wheels, captured the energy of water for small scale milling. The wheel-like spokes were blades that were turned by the flowing water of rivers or streams to drive the mill machinery. This type of wheel was used in rivers with a fall of three feet or less, making it suitable for use with Midlands waterways.



Rock Hill Buggy and Sign, Rock Hill Buggy Company, York County, S.C.

This buggy was manufactured by the Rock Hill Buggy Company around 1900. It was the same firm that would later become the Anderson Motorcar Company and produce the first South Carolina-made automobile. A beautiful example of the Anderson autos, a 1922 touring car, can be seen on the museum's fourth floor.



South Carolina BBQ Shack, Herman Thompson, Fairfield County, S.C.

"Shock and amazement" describe the way viewers often react to the self-taught art of Herman Thompson. He visits junkyards to search for intriguing metal parts, which inspire ideas for his whimsical creations, from dinosaurs to this "barbecue shack" made of metal and found objects. "They call me the 'backwoods sculptor,'" he says. "I kinda like that. I'm country."



"About South Carolina," William Thomas Thompson, Greenville County, S.C.

This 2008 acrylic on canvas piece was inspired by Thompson's need for "a history map" of South Carolina. He wrote after "circling the globe ... and putting my feet on the ground in all 50 states" that "I am satisfied with the Upstate as the best place in the world to live."



Saber Tooth Cat, *Smilodon Fatalis*, Dorchester County, S.C.

With its vicious-looking fang-like teeth, this is a full-size cast of the ferocious carnivore, which was one of the most deadly hunters of the last ice age. It lived in what is now South Carolina from approximately 2.8 million years ago to 10,000 years ago.



The Palmetto Gate, Philip Simmons, Charleston County, S.C.

An icon of the museum's collection, the Phillip Simmons Gate was custom made for the museum by Simmons, called the "dean of Charleston blacksmiths." Visitors have traveled from other states just to view this exquisite example of wrought-iron artistry. Its South Carolina theme includes magnolia leaves at the bottom, Lowcountry egrets in the doors and a spreading palmetto tree crowning the magnificent structure.



Pearl Fryar Topiary, Bishopville, S.C.

This amazing tree grown and shaped by Pearl Fryar, a topiary artist from Bishopville, S.C., is located outside of the planetarium entrance. Fryar grew this tree in his garden for 10 years specifically for the museum. There are two other Pearl trees located at the steps leading into the main entrance of the museum.



THANK YOU FOR SUPPORTING

These new educational and economic opportunities have been made possible by the support of local, state and federal governments, individuals, foundations and corporations. Every single dollar donated – from \$10 to \$1 million – has made all of the difference and is literally opening Windows to News Worlds for South Carolina students, residents and visitors.

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 Mr. and Mrs. Manning Frankstone

"I am proud to support our State Museum and Windows to News Worlds in its new wing. This project, funded jointly by Boeing and the State of South Carolina, will educate and inspire South Carolinians of all ages. Thank you, Boeing, for your vision and contribution. We will, indeed, reach new worlds together."

*- Senator Hugh Leatherman,
 Chairman, Senate Finance Committee*

"The educational aspects of this project are very important for students. My hope is that more students will become interested in mathematics and science because of their exposure to the new planetarium and observatory. My wife and I were excited to help make this opportunity available to the people of South Carolina."

- Dr. William Cain, Past Foundation Board Member

"What an exciting time it is for our State Museum. I am delighted to be part of this project. The observatory, planetarium and 4D theater will add immeasurably to not only the community but to the entire state of South Carolina in addition to the Southeast region and the entire country. I am indeed grateful to have been able to contribute as this will have a major impact on education, tourism and the cultural scene!"

- Charlotte Berry, Capital Campaign Steering Committee Chair

Frederick S. Upton Foundation
 Fullerton Foundation
 Mr. and Mrs. Brooks Galloway
 Garlock Helicoflex
 Col. and Mrs. Richard Gimmi
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 Mr. and Mrs. Jerry Jewler
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 Mr. and Mrs. Gary Jones

WINDOWS TO NEW WORLDS!

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Lexington County
Lillian S. Smith Foundation
Lipscomb Family Foundation
Drs. Dan and Valinda Littlefield
Ms. Linda Maloch
Dr. and Mrs. Amon Martin
Ms. Katherine Matthews
Mr. and Mrs. John F. McCabe
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Mr. and Mrs. Richard McDermott
Mr. and Mrs. James McGee
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Mr. Leonard Price
Redeemer Lutheran Church
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Hon. Anne Sinclair and
Mr. Julian Ruffin
Ms. Nancy Sams
SCANA Corporation
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SCSM Sharing Interpreters
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Ms. Patricia Sinclair
Mr. Tim Sinclair
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South Financial Group Foundation
State of South Carolina
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Superior Courts of Augusta, Ga
The Cassels Foundation
The Coker Foundation
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Dr. and Mrs. Charles Townes
Tucker Companies
Ms. Laurie Walden
Wells Fargo
Westinghouse Electric Company
Mr. and Mrs. Roger Whaley
Ms. Betty Wiggins
Mr. and Mrs. Jeremy Wilson
Ms. Pat Wilson
Mr. David Yelton

"Of course, we're extremely excited about what this project means for our city and the remarkable economic impact of bringing thousands of new visitors downtown. But more importantly we're excited about the young students who may have never known a world beyond the asphalt streets and concrete sidewalks of their neighborhood but will one day walk through these exhibits or peer up into this planetarium and, for the first time, open their eyes to the unimaginable universe of possibilities before them. I have no doubt that visiting this facility will be a life-changing experience for some of our young people and you simply cannot put a price on that."

*- Mayor Steve Benjamin,
City of Columbia*

"Imagine the creative opportunities available with a telescope accessible over the Internet. Students won't just read about the sun in a textbook, they actually will photograph solar storms and study their own pictures to learn about our star; or on a visit to the museum, actually witness the rings of Saturn and hurricane storms on Jupiter. Such interactive learning is a vital component of science education."

*- Charles M. Duke, Jr.,
Brigadier General,
USAF (Ret.),
Apollo 16 Astronaut*

"My father, Guy Lipscomb, loved this museum. Our family was thrilled to be a part of encouraging 'the next step' because every child and every adult in the state will be able to 'touch the stars' when Windows to New Worlds opens."

*- Marshall Lipscomb Foster,
Lipscomb Foundation*

SPECIAL THANKS TO THE WINDOWS TO NEW WORLDS CAPITAL CAMPAIGN STEERING COMMITTEE!

Charlotte Berry,
Committee Chair
Gail Baker Anastasion
Gayle Averyt
Adrienne Bellinger
Roger Blau
Bill Cain
Willie Calloway

Will Close
Gray Culbreath
Tom Falvey
David Hodges
Nick Moore
Roger Whaley
Jeremy Wilson



GETTING THE JOB DONE

The completion of this project required a tremendous amount of work and coordination among many, including architects, contractors, suppliers and construction firms, to name a few. Since the museum broke ground for Windows to New Worlds in October 2012, hundreds of individuals have physically contributed to making this project a reality.

"We hired the best of the best to build this project," said Willie Calloway, executive director. "In addition to seeking out industry leaders, we relied heavily on our own internal team to get the job done."

The project bears the mark of the museum's own exhibits staff, or the "E-Team." Under the leadership of Mike Fey, director of exhibits, the E-Team has produced work that will be visible, as well as important behind-the-scenes contributions.

Some major work includes "designing and installing the NASA gallery, designing, building and installing the Telescope Gallery, building projector platforms for the 4D theater and the planetarium," said Fey.

Bidding and purchasing the furniture, fixtures and equipment for the expanded Cotton Mill Exchange museum store and cabinets for the volunteer center and group visits area are other things completed by Fey's staff, which also painted most of the new facilities' walls and museum's new admissions desk (seen above), designed to resemble vintage textile machines.

Two of the most visible works of the E-Team, Fey said, are the "dismantling and reinstallation of the Alvan Clark telescope in the observatory" and the reconstruction of the replica observatory,

which houses the historic 1849 Henry Fitz telescope.

"We relied heavily on our own internal team to get the job done."

-Willie Calloway

The creativity used by the E-Team is evident in its "bidding or installing many floor openings with reclaimed decking boards, sub floor and reclaimed maple flooring," said Fey, whose staff is familiar with the uses and re-uses of a large variety of building materials.

By utilizing the museum's talent for several projects, money has been saved

for both the museum and the state. Fey hasn't kept an exact total, but says it came to "many thousands of dollars in some cases." Put the projects listed here together with many others the staff has completed, and it's obvious the savings is quite substantial.

After all this work, does Fey have any favorite projects among those his staff has worked on? "Not really, I'm just happy to see it all come together. I am most proud of the E-Team, for the variety of projects undertaken, unfailing creativity, the money saved and their heroic efforts."

When the new museum opens in August, the entire state will be able to take pride in the work Fey, E-Team and the team of building and design companies have done for the Palmetto State and its guests.

MANY EXPERTS CALLED

We would also like to recognize the industry-leading firms involved in bringing the Windows to New Worlds project to reality.

- ARCHITECTS: Clark Patterson Lee and Watson Tate Savory
- CONSTRUCTION: Gilbane Construction
- THEMATIC DESIGN: Jack Rouse Associates
- PLANETARIUM: Evans & Sutherland
- 4D THEATER: SimEx-Iwerks



Jonathan Brilliant (installation detail), 2010 McMaster Gallery, USC

BUILDING A UNIVERSE

The science aspects of the new facility are not the only discipline that will focus guests' minds on the wonders of outer space.

Opening along with the new expansion, the museum's new art exhibit, *Building a Universe*, will feature creations by artists whose work deals with space and the universe, either directly or conceptually, according to Chief Curator of Art Paul Matheny.

"This show is quite different for us," said Matheny. "In the past, our exhibits have been very focused specifically on the visual culture and art history of our state. These previous projects have been incredible experiences and captivating to the public. *Building a Universe*, however, focuses on a specific theme that is connected to the museum's capital project. The artists in this new exhibit were selected because of the quality of their work, and how it connects to the idea of space in some way."

The exhibit includes artwork from 15 South Carolina artists, many of whom created pieces specifically for this exhibit. The works represent a wide variety of media, including installation art, painting, printmaking, collage, sculpture and mixed media work.

"I hope that this show will allow people the opportunity to think about what they see in the sky," said Matheny. "I also hope they will recognize how much the universe and outer space, or just simply looking up rather than straight ahead, has inspired and can inspire so many people - maybe even themselves."

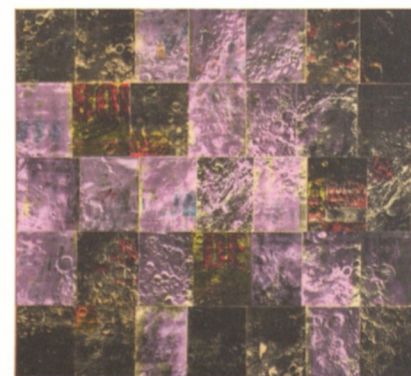
Building a Universe can be seen in the Lipscomb Art Gallery through March 15, 2015.



Peggy Rivers, "Death of Star, II," 2009



Paul Martyka, "Black Sky," 2013



Robert Courtright, Untitled "Lunar Collage," c. 1990



DINOSAURS: A BITE OUT OF TIME

Journey back in time when monsters walked the earth, swam in the sea and soared through the skies in the new blockbuster exhibit *DINOSAURS: A Bite Out of Time*.

After being extinct for more than 65 million years, these life-like dinosaurs are hungry and roaring. The exhibit features several robotic dinosaurs and strange creatures from prehistoric time. Guests can meet a *Tyrannosaurus rex* up close, marvel at the long-necked *Elasmosaurus* and watch the skies for the flying *Pteranodon*.

"You don't want to miss the chance to see these robotic creatures come to life," said Dave Cicimurri, natural history curator. "But beware, these creatures look, move and sound like the real thing."

The dinosaurs in the exhibit range in size from half-scale to full-size and include some of the most well-known dinosaurs, including *Tyrannosaurus rex* and *Stegosaurus*, as well as less familiar animals such as the *Pachycephalosaurus*.

The *Stegosaurus* is the most famous dinosaur from a group of dinosaurs known as Stegosauria and featured rows of unique bones that developed into plates and spines along their back and tail.

The *T. rex* was one of the largest meat-eating dinosaurs that ever lived and possibly the most well known dinosaur due to its huge size, ferocious nature and popularity in movies and in the media.

"*Pachycephalosaurus* was quite unusual and lived at the end of the dinosaur age, about 75 million to 65 million years ago," said Cicimurri. "It had a very thick skull, with nine inches of bone covering the brain. The animals probably rammed each other with their heads to determine an individual's rank within its group."

The exhibit includes a number of hands-on features, including a controllable robotic dinosaur, a dig box and two puppet show booths for kids to enjoy. Take home a piece of prehistoric history by getting a souvenir photo taken with a life-sized *Triceratops* or shopping in the special Dinosaurs museum store.

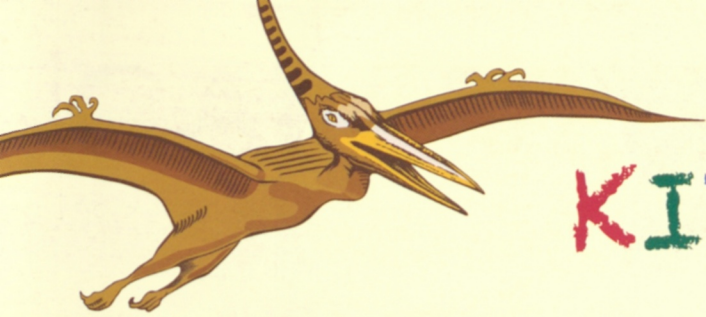
"The exhibit is very entertaining, but will also leave you with a deeper understanding about prehistoric times and how dinosaurs lived and ruled for more than 180 million years," said Cicimurri.

Visit scmuseum.org to learn more about the exhibit.



THE DINOSAUR EXPERIENCE CONTINUES!

Ice Age: Dawn of the Dinosaurs: The 4D Experience starts Aug. 16 in the 4D theater. Show times and dates will be posted soon to scmuseum.org.



KID'S CORNER

DID YOU KNOW?

- Dinosaur means “terrible lizard” and refers to their size because dinosaurs were mostly big animals.
- Dinosaurs evolved around 230 million years ago in Triassic Period of the Mesozoic Era.
- Dinosaurs have been extinct for more than 65 million years.
- Dinosaurs were given their name by Sir Richard Owen in 1842, who was one of the first to realize that the fossils he studied belonged to a unique group of huge, lizard-like extinct animals.
- The teeth and bones of at least five different types of non-avian dinosaurs have been found in the eastern part of South Carolina (Darlington, Florence and Williamsburg counties).

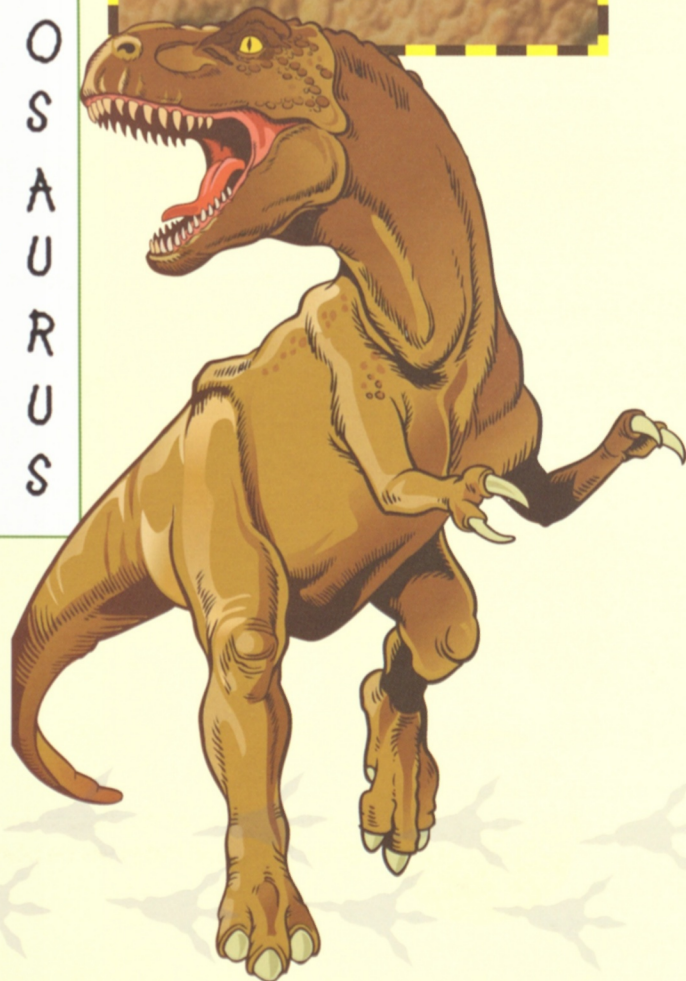
DINO WORD SEARCH

S	S	D	T	R	I	A	S	S	I	C	S
F	D	I	N	E	J	E	R	P	A	E	T
A	O	N	L	D	U	A	N	D	N	R	E
S	P	O	T	A	R	E	C	I	R	T	G
U	O	S	I	M	R	E	Y	R	Y	R	O
L	R	A	N	M	A	U	Q	E	C	E	S
O	U	F	O	S	S	I	L	A	X	A	
U	A	R	E	L	I	T	P	E	R	O	U
R	S	I	N	D	C	E	R	I	E	N	R
R	S	U	O	E	C	A	T	E	R	C	U
R	S	U	B	E	C	H	T	E	R	C	S

The words to the left are disguised in the block of letters. Circle the words to complete this Dinosaur word search and bring it to the museum to receive

\$1 OFF
ADMISSION TO
DINOSAURS:
A Bite Out of Time.

Offer valid through Sept. 30, 2014.



WORD LIST

- | | |
|---------------|-----------------|
| 1. CRETACEOUS | 6. TREX |
| 2. DINOSAUR | 7. TRIASSIC |
| 3. FOSSIL | 8. TRICERATOPS |
| 4. JURASSIC | 9. SAUROPODS |
| 5. REPTILE | 10. STEGOSAURUS |

COME CELEBRATE YOUR NEW STATE MUSEUM!

MEMBER PREVIEW DAY

FRIDAY, AUG. 15. 10 A.M. - 7 P.M.

All State Museum Members are invited to an exclusive Member Preview Day!

Come see the new museum **ONE DAY** before the general public and be the first to experience a planetarium show, the first to watch a 4D movie and the first to explore the new observatory and telescope gallery.

If you're not a member yet, you still have time to join and attend the Member Preview Day. Museum membership is a great way to experience all that the museum has to offer at a special value. For more information, please call (803) 898-4937 or visit scmuseum.org.

GRAND OPENING CELEBRATION

SATURDAY, AUG. 16. 9 A.M. - 7 P.M.

- The first **100 PEOPLE** will receive free general admission and other free tickets and great discounts to the museum for an **ENTIRE YEAR!**
- Watch **4D THEATER** movies and **PLANETARIUM** shows
- Explore the new **OBSERVATORY** and **TELESCOPE GALLERY**
- Ribbon cutting and model rockets launched by the Challenger Learning Center
- *Building a Universe* art exhibition opens, featuring original works on space and the universe
- Live beach, blues, bluegrass and gospel music
- Expanded store and new café
- Family-friendly programs, activities and giveaways



SCSM
SOUTH CAROLINA STATE MUSEUM



CALENDAR AT A GLANCE



SOUTHEASTERN TOY SOLDIER SHOW

SATURDAY, AUG. 9 10 A.M. - 5 P.M.
Exhibitors from across the South will display collections of toy soldiers (military miniatures) at this annual event. Miniature tanks, planes, cannons and vehicles, as well as books, will also be available for purchase from exhibitors.



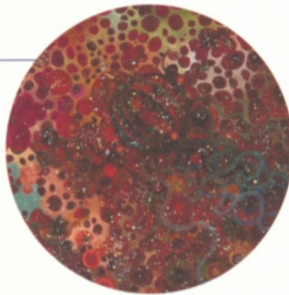
FALL FESTIVAL & PICKIN' PARTY

SATURDAY, SEPT. 20 10 A.M. - 5 P.M.
Bluegrass, barbecue and folk art will be the order of the day as the State Museum celebrates its annual Fall Festival & Pickin' Party. Succulent South Carolina barbecue, musical acts, plus folk artists demonstrating and selling their wares are just part of the fun!

BUILDING A UNIVERSE

OPENS SATURDAY, AUG. 16

Opening along with the new expansion, the museum's new changing art exhibit, *Building a Universe*, will feature creations by 15 artists whose work deals with space and the universe, either directly or conceptually. See page 15 for more details.



AUGUST

FRIDAY, AUG. 1

Museum and a Movie

11 a.m. Cowpens: A Battle Remembered
1:30 p.m. Walking with Dinosaurs: Death of Dynasty

SATURDAY, AUG. 2

Museum Highlights Tours: 11 a.m. and 1 p.m.

Museum and a Movie

11 a.m. Cowpens: A Battle Remembered
1:30 p.m. Allosaurus: Big Al

SUNDAY, AUG. 3

\$1 Sunday

Museum and a Movie

1:30 p.m. Allosaurus: Big Al

MONDAY, AUG. 4 - FRIDAY, AUG. 8

Museum and a Movie

11 a.m. Allosaurus: Big Al
1:30 p.m. Allosaurus: Big Al Uncovered

SATURDAY, AUG. 9

Southeastern Toy Soldier Show 10 a.m. - 5 p.m.

See above for details.

Museum Highlights Tours: 11 a.m. and 1 p.m.

Museum and a Movie

11:00 a.m. Allosaurus: Big Al
1:30 p.m. Allosaurus: Big Al Uncovered

FRIDAY, AUG. 15

Member Preview Day 10 a.m. - 7 p.m.

See page 18 for details.

SATURDAY, AUG. 16

GRAND OPENING 9 a.m. - 7 p.m.

Building a Universe opens See page 15 for details.

Museum Highlights Tours: 11 a.m. and 1 p.m.

SATURDAY, AUG. 23

Museum Highlights Tours: 11 a.m. and 1 p.m.

SATURDAY, AUG. 30

Museum Highlights Tours: 11 a.m. and 1 p.m.

SEPTEMBER

SATURDAY, SEPT. 6

Museum Highlights Tours: 11 a.m. and 1 p.m.

SUNDAY, SEPT. 7

\$1 Sunday

SATURDAY, SEPT. 13

Museum Highlights Tours: 11 a.m. and 1 p.m.

SATURDAY, SEPT. 20

Fall Festival & Pickin' Party 10 a.m. - 5 p.m.

See above for details.

Museum Highlights Tours: 11 a.m. and 1 p.m.

Saturday, Sept. 30

Museum Highlights Tours: 11 a.m. and 1 p.m.

Dates and Times are subject to change. Please call ahead to verify programs at 803.898.4999 or visit scmuseum.org

NEW HOURS BEGINNING AUG. 16: Mon. 10 a.m. - 5 p.m. • Tues. 10 a.m. - 8 p.m. • Wed. - Fri. 10 a.m. - 5 p.m. • Sat. 10 a.m. - 6 p.m., Sun: 12 p.m. - 5 p.m.

Tues. 10 a.m. - 8 p.m. • OPEN: State and federal holidays • CLOSED: Easter, Thanksgiving Day, Christmas Eve and Christmas Day

REBRANDING THE STATE MUSEUM

The State Museum has featured two distinct looks over the past 26 years that have represented what the museum means and delivers to the state and its visitors. As the museum transforms its facility and programming, the need for a rebranding was established.

The **crescent** is representative of South Carolina through the gourget/crescent symbol that is on the state's flag. It also represents outer space and the night sky that can now be seen through the museum's observatory and planetarium.



that moves the planets around the sun and the great rhythm of the universe.

The **circle** is symbolic for one museum that is all encompassing, vast and sustainable and tells a story that has no ending and is ever-changing. The circle implies an idea of movement and symbolizes the cycle of time, the perpetual motion of everything

The **inside of the circle** is unique to the museum and is an abstract representation of the massive, 36,000-pound tripod that supports the observatory telescope and welcomes guests as they enter the museum. This tripod serves as an icon for the museum and will not only stand out in people's minds and impress with their functionality, but will leave a lasting impression of this amazing new facility.



SOUTH CAROLINA STATE MUSEUM MEMBERSHIP BRIGHTER THAN EVER!

We've expanded our membership program to offer exciting new benefits and savings!

- FREE general admission
- FREE blockbuster exhibit tickets
- Admission to exclusive member events and other members-only opportunities
- Member Appreciation Days featuring extra museum store discounts

INDIVIDUAL \$49

Membership benefits for one adult, PLUS:

- One free ticket for each blockbuster exhibit
- One free 4D film ticket per membership year
- One free planetarium ticket per membership year

INDIVIDUAL PLUS \$89

Membership benefits for two adults, PLUS:

- Two free tickets for each blockbuster exhibit
- Two free 4D film tickets per membership year
- Two free Planetarium tickets per membership year

FAMILY BASIC \$99

Membership benefits for two adults and all children or grandchildren ages 18 and under, PLUS:

- Free tickets for two adults and up to six children for each blockbuster exhibit
- Discounts on 4D theater and planetarium tickets

- DISCOUNTS on 4D films and planetarium shows
- 10% DISCOUNTS in museum store & café
- 20% DISCOUNTS on museum programs, signature events and children's birthday parties
- Subscriptions to *IMAGES* quarterly magazine & e-newsletters

FAMILY PLUS \$149

All the benefits of Family Basic membership, PLUS:

- Free 4D theater tickets for two adults and up to six children per membership year
- Free planetarium tickets for two adults and up to six children per membership year

AMBASSADOR \$175

All the benefits of Family Plus membership, PLUS:

- Six general admission guest passes
- Free admission for two at 650+ museums across North America

DIRECTOR'S GUILD \$300

All the benefits of Ambassador membership, PLUS:

- Two additional free 4D film tickets (8 total)
- Two additional free Planetarium tickets (8 total)
- Two additional guest passes (8 total)
- Two special after-hours event tickets



TO BECOME A MEMBER OR RENEW YOUR MEMBERSHIP

►call (803) 898-4937 ►email membership@scmuseum.org ►visit smuseum.org ►or stop by the museum



VOLUNTEER RECOGNITION

Thank you to all of the wonderful volunteers who have supported and will continue to support the State Museum in the future.

YOU TRULY ARE THE HEART OF THE MUSEUM!

28 YEARS OF SERVICE

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26 YEARS OF SERVICE

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Linda Mittenzwei
George McIntosh
Ouida Ott
Jan Shackelford

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Jeremy Scruggs
John Silvers
Karli Sinclair
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Annah Steele
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Elizabeth Wall
Barton Walrath
Lynn Eileen Werner
Johnny Vastag

TO BECOME A STATE MUSEUM VOLUNTEER

Contact Jeff Powley, volunteer manager at jeff.powley@scmuseum.org or (803) 898-4912.

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Ex-Officio

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Karen Hall
Donor Relations Manager

Laurie Belger
Financial Analyst

803.898.4935

NOTES FROM OUR FOUNDATION EXECUTIVE DIRECTOR, JAY PITTS



IT'S FINALLY HERE

Our new facility is opening on Aug. 16, and we could not have made it to the finish line without you - our most loyal and dedicated supporters.

This project has been a labor of love for all of us who value the rich educational resources and artifacts unique to the State Museum. The steadfast commitment and perseverance of the museum's board, staff, volunteers, donors and friends over the years has made this project a reality. And, so today and every day we thank you and celebrate this important time in the State Museum's history.

This summer marks the beginning of a transformational and exciting era for the State Museum.

The new observatory and planetarium, collection of antique telescopes, and 4D theater are just the gateway to the artifacts, events, exhibits and educational programs that await our visitors from across South Carolina and around the globe. There is simply nothing quite like it anywhere on the East Coast that can compare. Nearly two decades of careful planning have resulted in magnificent, world-class educational resources that are game-changers for South Carolina and our children.

Preparations are now in place to bring the antique Alvan Clark Telescope directly into the hands of schoolchildren and teachers all across our state. For the first time ever, children will be able to remotely access this vintage tool to study and observe the planets, stars and beyond. This one-of-a-kind experience can be customized for any classroom, anywhere. The accessibility to cutting-edge STEM resources such as the State Museum can now provide will be an educational, workforce and economic boom to our state.

The enthusiasm we feel for the possibilities of the new facility has been contagious and their educational impact will be profound. Thank you for your support for bringing these world-class educational resources to your State Museum.

We look forward to seeing you soon.

“Nearly two decades of careful planning, have resulted in magnificent, world-class educational resources that are game-changers for South Carolina and our children.”

THANK YOU!

MANY THANKS TO OUR COMMUNITY PARTNERS!

YOU MAKE IT HAPPEN!

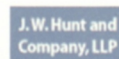
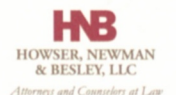
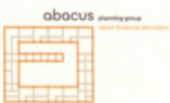
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FOR INFORMATION ON HOW TO BECOME A COMMUNITY PARTNER, PLEASE CALL 803.898.4992.



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The new museum store will continue to be the ultimate shopping destination in the state, but BIGGER!



South Carolina's premier shopping destination has expanded and is relocated in the front lobby of the museum.

- 4,000 square feet of retail space
- Unique "old textile mill" theme throughout
- Artisan crafts from every corner of South Carolina
- Gifts, apparel, jewelry, accessories, books and home decor
- Children's games, books and toys
- South Carolina certified food products

THE CRESCENT CAFE IS BACK!

The Crescent Café will reopen in the same location on the second floor mezzanine, offering guests the opportunity to take a break for something delicious to eat and drink.



NEW RENTAL SPACES

From the planetarium and observatory to the large open lobby, outdoor terrace and fully equipped meeting rooms, the museum's new and renovated spaces are the perfect venue for your next event. Plus a brand new catering kitchen allows for smooth food and beverage service for your special occasion.



BOOK YOUR EVENT TODAY
Call 803.898.4921

